

Assignment 5

Textbook Assignment: "Inflatable Survival Equipment." Pages 6-1 through 6-35.

Learning Objective: *Recognize life raft construction materials design features, stowage locations, and configurations; identify inflation procedures; and describe repair requirements for life rafts.*

- 5-1. All inflatable survival equipment is subjected to periodic maintenance under the direction of the
1. maintenance/material control officer
 2. maintenance chief
 3. work center supervisor
 4. quality assurance officer
- 5-2. To meet unusual situations, the calendar inspections on inflatable equipment may be extended up to what maximum number of days?
1. 5 days
 2. 7 days
 3. 10 days
 4. 14 days
- 5-3. For aircraft that are in phase maintenance, the time extended for periodic maintenance can be extended to plus or minus what percent of the time cycle'?
1. 5
 2. 10
 3. 15
 4. 20
- 5-4. Life rafts installed in the fuselage require a daily inspection. This inspection can be performed by which of the following persons?
1. The plane captain (designated and instructed}
 2. The aircrew member (designated and instructed)
 3. The PR
 4. All of the above
- 5-5. Life rafts should have a calendar/phase inspection performed on them each time the aircraft comes into its inspection cycle. This inspection can NOT exceed how many days?
1. 91
 2. 180
 3. 210
 4. 225
- 5-6. How often is a functional test performed on a life raft?
1. Every inspection
 2. Every other inspection
 3. Every third inspection
 4. Every fourth inspection
- 5-7. When you are performing a functional test, the life raft should inflate to its designed shape in less than what maximum amount of time?
1. 1 minute
 2. 2 minutes
 3. 3 minutes
 4. 30 seconds
- 5-8. When applying a pull cable proof load test, how many pounds of force must be applied?
1. 25
 2. 30
 3. 50
 4. 75
- 5-9. Which of the following life rafts can be inflated by using an oral inflation tube?
1. LR-1
 2. LRU-12/A
 3. LRU-13/A
 4. LRU-15/A

- 5-10. Before you test the pressure in a flotation compartment during a leakage test, you must wait a minimum of how many hours after the final pressure adjustment is made?
1. 8
 2. 2
 3. 24
 4. 4
- 5-11. To clean a life raft you would use a cleaning compound mixed with water. This mixture should consist of one part of compound to how many parts of water?
1. Six
 2. Five
 3. Three
 4. Four
- 5-12. CO₂ cylinders for multiplace life rafts are subjected to a hydrostatic test a minimum of how often?
1. Yearly
 2. Every 2 years
 3. Every 3 years
 4. Every 5 years
- 5-13. When installing an inflation valve onto a CO₂ cylinder that will be used on a multiplace life raft, you would torque it to how many inch-pounds?
1. 400±40
 2. 600±60
 3. 800±80
 4. 900±90
- 5-14. What is the hydrostatic test interval, if any, for an LR-1 life raft cylinder?
1. None
 2. 2 years
 3. 5 years
 4. 4 years
- 5-15. CNO has established that life rafts will carry enough equipment for an aircrew member to be capable of surviving for how long?
1. 12 hours
 2. 24 hours
 3. 72 hours
 4. 96 hours
- 5-16. When repairing a loose or missing seam tape, you must overlap the seam tape on other seams at least how many inches?
1. 1
 2. 2
 3. 3
 4. 4
- 5-17. What is recommended to remove or loosen damaged tape on a life raft?
1. Cleaning compound
 2. Toluene
 3. Gasoline
 4. M.E.K.
- 5-18. How many coats of toluene are applied to an area that you are going to repair?
1. One
 2. Two
 3. Three
 4. Four
- 5-19. How many coats of cement are applied to the raft when you make a repair?
1. One
 2. Two
 3. Three
 4. Four
- 5-20. When applying cement to a patch, how long should you wait between the first and the last coat?
1. 10 minutes
 2. 15 minutes
 3. 20 minutes
 4. 25 minutes
- 5-21. How long must you wait before applying talcum powder to the patch area?
1. 12 hours
 2. 24 hours
 3. 36 hours
 4. 48 hours
- 5-22. You must scallop the edge of a patch that is larger than what maximum size?
1. 6 inches
 2. 2 inches
 3. 3 inches
 4. 5 inches

5-23. Righting handles are provided on all life rafts EXCEPT which of the following?

1. LRU-12/A
2. LRU-13/A
3. LRU-14 series
4. LRU-15/A

5-24. Topping-off valves on multiplace life rafts are used in conjunction with the

1. oral Inflation tube
2. hand pump
3. CO₂ manifold
4. internal bulkheads

5-25. The LRU-13/A life raft is designed to hold what maximum number of people?

1. 13
2. 7
3. 5
4. 4

5-26. Life rafts that are stowed inboard on aircraft are secured to the aircraft by which of the following methods?

1. A painter line
2. A life line
3. A securing line
4. A mooring line

5-27. What is the static breaking strength of the line used to secure a life raft to an aircraft?

1. 10 to 20 Pounds
2. 20 to 40 pounds
3. 30 to 50 pounds
4. 30 to 150 pounds

5-28. The LRU-14 series raft is designed to hold what maximum number of aircrew members?

1. 14
2. 12
3. 7
4. 4

5-29. What unique design feature does the LRU-15/A raft have over other multiplace rafts?

1. It carries an outboard motor
2. It is always right side up after it's inflated
3. It has a punctureproof flotation tube
4. It can be used as a sailboat

5-30. If an LRU-14 series life raft fails to inflate with CO₂, the aircrew member should be taught to use the hand pump to inflate which part of the life raft first?

1. The floor
2. The main flotation tube
3. The spray tube
4. The seat

5-31. How long is the retaining line on a LR-1 life raft?

1. 8 feet
2. 6 1/2 feet
3. 5 feet
4. 4 feet

5-32. The interval between calendar inspections on an LR-1 life raft must not exceed how many days?

1. 91
2. 180
3. 210
4. 225

Learning Objective: *Recognize types, operating principles, design features, and maintenance requirements of life preservers, and identify the components, their purposes, capabilities, configurations, and lifesaving applications.*

5-33. The LPU-21/P series life preserver is intended for use in aircraft that are equipped with ejection seats.

1. True
2. False

- 5-34. What is the weight of the LPU-21/P series life preserver without survival equipment?
1. 5.0 pounds
 2. 4.5 pounds
 3. 3 pounds
 4. 4 pounds
- 5-35. When properly inflated, the LPU-21/P series life preserver provides the wearer with a minimum buoyancy of
1. 40 pounds
 2. 60 pounds
 3. 65 pounds
 4. 70 pounds
- 5-36. The LPU-21/P series life preserver has how many flotation chambers?
1. One
 2. Two
 3. Three
 4. Four
- 5-37. The webbing belt on the LPU-21/P series life preserver provides for waist size adjustment in what range?
1. 28 to 34 inches
 2. 30 to 42 inches
 3. 40 to 46 inches
 4. 30 to 44 inches
- 5-38. Which of the following aircrew members would wear an LPU-25/P series life preserver?
1. A P-3 PPC
 2. An H-46 crew chief
 3. An F-14 pilot
 4. A C-130 flight engineer
- 5-39. Which of the following is the primary means of inflating an LPU-23/P series life preserver?
1. The FLU-8A/P automatic inflation device
 2. Pulling the beaded handles
 3. Firing the SEAWARS system
 4. Actuating the explosives primer
- 5-40. How many times can the FLU-8A/P inflator be used before it must be replaced?
1. One
 2. Two
 3. Three
 4. Four
- 5-41. Which of the following life preservers would be used by a passenger on a cargo-type aircraft?
1. LPU-21/P
 2. LPU-24/P
 3. LPA-2
 4. LPP-1A
- 5-42. What is the only difference between the LPP-1 and the LPP-1A life preservers?
1. The size
 2. The inflation assembly
 3. The shape
 4. The automatic inflation device
- 5-43. The LPP-1/1A life preservers provide a minimum of how many pounds of buoyancy to the user?
1. 21
 2. 29
 3. 32
 4. 39
- 5-44. The LPP-1/1A adjusts to fit waist sizes in what range?
1. 28 to 40 inches
 2. 28 to 42 inches
 3. 30 to 46 inches
 4. 30 to 52 inches
- 5-45. The CO₂ cylinder used with the LPP-1A has a charge of how many grams?
1. 25 to 28
 2. 26 to 29
 3. 28 to 31
 4. 30 to 33
- 5-46. The protective cover used with the LPU-30/P life preserver is supplied in how many sizes?
1. One
 2. Two
 3. Three
 4. Four

- 5-47. How is the LPU-30/P life preserver inflated?
1. By pulling the inflation lanyard
 2. By using an FLU-8A/P assembly
 3. By pulling the beaded handles
- 5-48. Life preservers that are installed in an aircraft are subject to a special inspection. This inspection must NOT exceed how many days?
1. 14
 2. 30
 3. 180
 4. 231
- 5-49. Personnel issue life preservers are on a calendar/phase inspection cycle of how many days?
1. 30
 2. 60
 3. 90
 4. 181
- 5-50. A functional test is performed on life preservers a minimum of how often?
1. Every 90 days
 2. Every 180 days
 3. Every third inspection
 4. Every fourth inspection
- 5-51. When performing a functional test on a life preserver, it should inflate fully to its designed shape in less than what maximum number of seconds?
1. 30
 2. 40
 3. 60
 4. 90
- 5-52. If it is necessary to readjust the pressure in a life preserver when you are doing a leak test, how many minutes should you wait after the air supply has been shut off?
1. 3
 2. 10
 3. 15
 4. 20
- 5-53. After the life preserver pressure has stabilized, how many hours must you wait before the pressure is recorded?
1. 1
 2. 2
 3. 3
 4. 4
- 5-54. What is the maximum allowable pressure drop in an LPU-30/P life preserver after a period of 4 hours?
1. 0.1 psi
 2. 0.2 psi
 3. 0.3 psi
 4. 0.4 psi
- 5-55. To perform the visual inspection, you would inflate the life preserver to how many psi?
1. 1
 2. 2
 3. 3
 4. 4
- 5-56. What indication do you look for to ensure that the automatic inflation feature of a LPU-23/P life preserver is in tact?
1. The silver indicator will be visible
 2. The firing check port will be open
 3. The silver indicator will not be visible
 4. The firing check port will be closed
- 5-57. What is the service life of the FLU-8/P series automatic inflator from the date of manufacture?
1. 12 months
 2. 24 months
 3. 48 months
 4. 66 months
- 5-58. What is the total service life of the batteries used in the automatic inflator?
1. 12 months
 2. 24 months
 3. 48 months
 4. 66 months

- 5-59. When performing a battery voltage test on an LPU-24/P series life preserver, you would use a needle type voltage multimeter?
1. True
 2. False
- 5-60. How long should you wait for the FLU-8A/P circuit to stabilize before you take the voltage readings?
1. 10 seconds
 2. 15 seconds
 3. 20 seconds
 4. 25 seconds
- 5-61. What would a reading of -12 indicate when performing a battery voltage test?
1. The battery is installed backwards
 2. The battery is dead
 3. Both batteries are dead
 4. The voltage meter is on the wrong setting
- 5-62. How many times do you operate the beaded inflation handles to ensure the piercing pin moves properly?
1. Two or three
 2. Three or four
 3. Five or six
 4. Eight
- 5-63. How much pressure is applied to the actuating lanyard of a LPP-1/1A series life preserver when you perform an initiation lanyard pull test?
1. 10 pounds
 2. 15 pounds
 3. 20 pounds
 4. 25 pounds
- 5-64. What is used to clean the threads on a CO₂ cylinder?
1. A wire brush
 2. A thread chaser die
 3. A jeweler's file
 4. A soft cloth
- 5-65. To ensure a firm cylinder seat, the cylinder must have a minimum of how many threads?
1. 5
 2. 6
 3. 7
 4. 8
- 5-66. Before you replace a CO₂ cylinder, you must ensure that it is no less than how many grams of its minimum stamped weight?
1. 1
 2. 2
 3. 3
 4. 4
- 5-67. How much force is used to torque the sensor plug cap on an FLU-8A/P?
1. 5 inch-pounds
 2. 6 inch-pounds
 3. 7 inch-pounds
 4. 8 inch-pounds